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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/532,339	04/10/2006	Kazuhiro Furuta	007324-0315886	1522
909 7590 03/23/2009 PILLSBURY WINTHROP SHAW PITTMAN, LLP P.O. BOX 10500 MCLEAN, VA 22102				
EXAMINER				
KHAN, OMER S				
ART UNIT		PAPER NUMBER		
2612				
MAIL DATE		DELIVERY MODE		
03/23/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary**Application No.**

10/532,339

Applicant(s)

FURUTA, KAZUHIRO

Examiner

Omer S. Khan

Art Unit

2612

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 April 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 April 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/CD/CD)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Specification

1. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-7 are rejected under 35 U.S.C. 102(b) as being Nakazawa by US 6297746.

Consider claim 1, Nakazawa an electrical apparatus operation state control system for controlling an operation state of an electrical apparatus operated by

operation means operated by a user for switching an operation state, See Fig 1 and abstract. The system comprising communication control means 36/30/200 disposed between the electrical apparatus and an operating power supply 400 for the electrical apparatus; operation state switching means 40 disposed at the electrical apparatus for switching an operation state of the electrical apparatus independent of operation in the operation means, and in that the operation state switching means is rendered operable via the communication control means when a remote operated terminal 16 executes an over-the-horizon wireless communication with the communication control means.

Nakazawa disclosed a system for controlling a plurality of electrical appliances, i.e. TV, Lighting lamp, VCR, etc, via radio communication a terminal unit 200 registered in the host unit 100 and each terminal unit is disposed for each of the plurality of electrical apparatuses. The terminal unit controls the corresponding electrical apparatus based on a control signal from the host unit, and detects the state of the electrical apparatus to report it to the host unit, **See abstract, col. 8 l. 39-67.**

The apparatus power supply control device comprises a switch section for switching conducting and non-conducting of a power supply path between a predetermined operation power supply and the control object or electrical apparatus, a switch controller for controlling the switch section, and a detector for detecting a conducting or non-conducting state of the power supply path, **See col. 6 l. 30-36.**

The terminal unit 200 also comprises a microcomputer 30, which controls the entire operation of the terminal unit 200, generates a signal for controlling the connected

electrical apparatus, and detects the state of the electrical apparatus to generate a signal for reporting the state to the host unit 100, **col. 10, l. 46-51.**

The desk lamp and the electric stove in FIG. 1 can be plugged into a power supply control unit 400, which also comprises a terminal plug-in section 40 to which the terminal unit 200 can be connected. The power supply control unit 400 is controlled by radio communication performed between the connected terminal unit 200 and the host unit 100, **See col. 11 l. 46-53.**

Consider claim 2, the electrical apparatus operation state control system according to claim 1, wherein the operation state switching means is composed as automatic operation means for automatically operating the operation means of the electrical apparatus, **See col. 5 l. 5-7 where he discusses the power supply of the necessary electrical apparatus can automatically be controlled in response to the environment change.**

Consider claim 3, the electrical apparatus operation state control system according to claim 1, wherein the electrical apparatus is arranged so that an operation state thereof in power activation is changeable into a plurality of stages, **See col. 18 l. 53-64, the microcontroller 30 can detects the state of the electrical apparatus to generate a signal for reporting the state to the host unit 100, and the vibration sensor 60 detects the vibration of a predetermined strength or more, a vibration detection report is transmitted to the host unit 100, host can take the appropriate**

**action, and activate the power in stages, to prevent the confusion at the time of
refuge the host unit transmits the ID code to the terminal unit 200.**

Consider claim 4, The electrical apparatus operation state control system according to claim 1, further comprising a power supply state informing unit provided at the electrical apparatus to indicate whether the electrical apparatus is connected to a power supply, **col. 10, l. 46-51.**

Consider claim 5, The electrical apparatus operation state control system according to claim 1, wherein the communication control means and the remote operated terminal are communicable via a public communication line, **See col. 9 l. 4. The frequency band is near 400 MHz, i.e. unlicensed public band.**

Consider claim 6, The electrical apparatus operation state control system according to claim 1, wherein, after receiving a command to change the operation state of the electrical apparatus from the remote operation terminal, the communication control means is **capable of** executing the instructions when a predetermined condition is met, **See col. 5 l. 13- 18 the apparatus may comprise plurality of sensors, i.e. motion and fire hazard, electricity is prevented from being wasted due to devices that have not been turned off during the nighttime, and a fire can be prevented from arising because of electricity that has inadvertently been left on.**

Claim limitations that employ phrases “capable of” is typical of claim limitations which may not distinguish over prior art according to the principle. It has been held that the recitation that an element is “capable of” performing a function is not a positive limitation but only requires the ability to so perform. Nevertheless, examiner has shown that the limitations employing the phrases “capable of” are present in the prior art. Nakazawa is capable of preventing waste of energy and electrical fire.

Consider claim 7, The electrical apparatus operation state control system according to claim 1, further comprising detecting means for detecting the operation state of the electrical apparatus and indicating the detected operation state to the communication control means and in that the communication control means transmits a result of detection indicated by the detecting means to the remote-operated terminal and further characterized by indicating means for indicating the transmitted detection result to the remote operation terminal, **See col. 5 l. 13- 18 and col. 10, l. 46-51.**

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 8 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakazawa by US 6297746, and further in view of Ying in US 6861956.

Consider claim 8, The electrical apparatus operation state control system according to claim 1, wherein the detecting means is disposed on a plurality of electrical apparatuses for detecting a state of consumed power for each of the electrical apparatuses and the communication control means is **capable of** controlling the state of consumed power for each of the electrical apparatuses, and when a sum total of the state of consumed power indicated by the detecting means exceeds an upper limit value, the communication control means controls so that the consumed power is reduced from the electrical apparatus with a lower priority sequence or stops the operation of the electrical apparatus so that the sum total is limited within an upper limit power.

Nakazawa discusses when the terminal unit 200 is connected to the electrical apparatus applicable to the system; PC terminal is used to keep constant a voltage level inside the terminal unit 200. Nakazawa system comprises fire hazard sensor, i.e. circuit breaker; therefore, the system is capable of shutting down apparatus if the apparatus is drawing too much current. Nakazawa does not teach a priority sequence.

In analogous art, Ying discloses a power management system and associated method therefore includes a plurality of local wireless energy control units at remote sites for controlling power delivery to customer loads, and a central station with a wireless transmitter for broadcasting commands to the wireless energy control units. The wireless energy control units each comprise a bank of switches for controlling power delivery to electrical loads at each local site. Each wireless energy control unit is capable of being pre-configured so as to specify the order or priority in which electrical

loads are disengaged, in response to commands to reduce power consumption received from the central station. The central station may issue power reduction commands according to different priority levels or alert stages. See Ying, incorporates prior art U.S. Pat. No. 4,216,384 by reference and wherein the various main power lines of the installation or site are monitored for energy usage, and a control circuit selectively disconnects loads when the total energy being drawn at the installation or site exceeds a specified maximum, **See abstract, col. 3 l. 51-55.**

Claim limitations that employ phrases “capable of” is typical of claim limitations which may not distinguish over prior art according to the principle. It has been held that the recitation that an element is “capable of” performing a function is not a positive limitation but only requires the ability to so perform. Nevertheless, examiner has shown that the limitations employing the phrases “capable of” are present in the prior art.

Ying discloses claimed limitations.

It would have been obvious to an ordinary skilled artisan at the time of invention to modify the invention of Nakazawa and include a power management system; therefore, increase the efficiency of the overall system by implementing a cost effective power management system of Ying versus other power management systems available at the time of invention, **See abstract, col. 3 l. 51-55.**

Consider claim 9, The electrical apparatus operation state control system according to claim 8, wherein the communication control means sets the priority sequence of the electrical apparatus whose operation state has been changed latest to lowest and so that the priority sequence becomes higher as the time the operation state

is changed, **See Ying, col. 5 l. 55-61, col. 15 l. 1-8**, the collective operation of the local energy control units at their various remote locations, a substantial overall power reduction can be realized, particularly, for example, at times of peak power demand. Power utility 102 may be able to control dynamically the total customer power demand, and thus reduce peak customer power consumption when necessary to avert a power crisis. By providing multiple alert stage levels, such a power management technique allows some granularity in selecting the amount of customer power to be reduced, and places the minimal burden necessary on the customers.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Omer S. Khan whose telephone number is (571)270-5146. The examiner can normally be reached on M-F 7:30 - 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian A. Zimmerman can be reached on 571-272-3059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Omer S Khan/
Examiner, Art Unit 2612

/Brian A Zimmerman/
Supervisory Patent Examiner, Art Unit 2612